

Solve each formula for the selected variable.

1) $C = 2\pi r$, r

2) $A = \pi r^2$, r

3) $d = rt$, t

4) $A = \frac{1}{2}h(b_1 + b_2)$, b_1

5) $P = C + rC$, r

6) $y = mx + b$, m

7) $v = \frac{d}{t}$, d

8) $a^2 + b^2 = c^2$, a

9) $A = s^2$, s

Use the distributive property to simplify or solve.

10) $-3(x + 8)$

11) $2(3x + 5y - 7) - (10x + 8y)$

12) $y + 5(y + 3) = 33$

13) $\frac{7}{8}(32 + 16x) = -7x - 14$

14) $6m + 5(m - 2) = 34$

15) $\frac{1}{4}(12c + 16) = 10 - 3(c - 2)$